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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,872	09/30/2005	Akihiro Ohashi	20570/0203313-US0	2013
7278 7590 04/27/2009 DARBY & DARBY P.C.		EXAMINER		
P.O. BOX 770			TAYLOR II, JAMES W	
Church Street New York, NY			ART UNIT	PAPER NUMBER
11011 10111,111	10000 0770		1796	
			MAIL DATE	DELIVERY MODE
			04/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/551.872 OHASHI ET AL. Office Action Summary Examiner Art Unit James W. Taylor II 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 14 April 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers

Attachment(s)

Attach

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in absyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTC-152.

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage.

Certified copies of the priority documents have been received.

application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

Priority under 35 U.S.C. § 119

9) The specification is objected to by the Examiner.

a) All b) Some \* c) None of:

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#### DETAILED ACTION

 All outstanding claim objections and rejections not explicitly maintained below are withdrawn in light of applicant's amendment filed 4/14/2009.

The text of those sections of Title 35, U.S. Code not included herein can be found in a prior office action.

# Claim Rejections - 35 USC § 112

- 3. Claims 1-6 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- 4. The specification does not disclose how the applicant has placed Na<sub>2</sub>O on the surface of the particles in the claims. "[T]he essential goal' of the description of the invention requirement is to clearly convey the information that an applicant has invented the subject matter which is claimed." *In re Barker*, 559 F.2d 588, 592 n.4, 194 USPQ 470, 473 n.4 (CCPA 1977). "The written description's requirement implements the principle that a patent must describe the technology that is sought to be patented; the requirement serves both to satisfy the inventor's obligation to disclose the technologic knowledge upon which the patent is based, and to demonstrate that the patentee was in possession of the invention that is claimed." *Capon v. Eshhar*, 418 F.3d 1349, 1357, 76 USPQ2d 1078, 1084 (Fed. Cir. 2005). See MPEP 2163.04.

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5. The specification fails to disclose how the applicant is provided the metal hydroxide particles with Na<sub>2</sub>O. One of ordinary skill in the art would expect that Na<sub>2</sub>O is highly reactive given the electronegativity of oxygen and the low ionization energy of sodium. Therefore, one would expect that there would be complications for traditional coating techniques, such as sputtering, chemical vapor deposition, *et cetera*. Therefore, traditional coating techniques would not necessarily work. Further, the examiner was unable to find any comparable art for coating metal hydroxides with Na<sub>2</sub>O. While this is the reason that no prior rejection is set forth, neverthless, in light of the above discussion it is apparent that the claims and the supporting specification are not in compliance with the written description portion of the 1st paragraph of 35 USC 112. Therefore, until this issue is resolved the claims are barred from patentability.

- 6. For at least the reasons discussed in the preceding paragraph, one of ordinary skill in the art at the time the application was filed would not have recognized that the inventor was in possession of the invention as claimed in view of the disclosure of the application as filed.
- 7. Claims 1-6 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.
- To be enabling, the specification must teach one of ordinary skill in the art to make and use the full scope of the claimed invention without "undue experimentation."

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In re Wright, 999 F.2d 1557; 27 USPQ 2d 1510 (Fed. Cir. 1993). There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue." These factors include, but are not limited to: (A) the breadth of the claims; (B) the nature of the invention; (C) the state of the prior art; (D) the level of one of ordinary skill; (E) the level of predictability in the art; (F) the amount of direction provided by the inventor; (G) the existence of working examples; and (H) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988). See MPEP 2164.01.

- The office will address several of the Wands factors in relation to the Na<sub>2</sub>O coated metal hydroxide, which is the unenabled component of the composition.
- 10. The state of the prior art: surface coatings are known in the art. However, for at least the reasons disclosed above in par. 5, the state of the art regarding coating other relatively inert compounds will not predict a sufficient coating method for Na<sub>2</sub>O.
- 11. The level of one of ordinary skill: the level of skill in the art is high. However, for at least the reasons disclosed above in par. 5, one of ordinary skill in the art would be relegated to trial an error to reduce the instant invention to practice.
- 12. The predictability or unpredictability of the art: because of the unusual and application and chemistry of Na<sub>2</sub>O relative to standard filler coatings, the office takes the position that this section of the art would be highly unpredictable. Therefore, a

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reasonable chance of success would not necessarily be expected using standard coating techniques.

13. The amount of direction or guidance presented: although the application pointed to techniques to coat fatty residues and capatibilizing agents on the filler (p. 8, II. 7-20), the examiner was unable to find any guidance as to how the Na<sub>2</sub>O could be coated onto the particles in the instant specification.

14. The quantity of experimentation needed: for the reasons presented above in pars. 5 and 10-13, the office takes the position that a significant amount of experimentation would be necessarily to practice the invention. Specifically, the office takes the position that undue experimentation would be necessary.

## Response to Arguments

- 15. Applicant's arguments filed 4/14/2009 have been fully considered but they are not persuasive. Specifically, the applicant argues that by striking "with Na<sub>2</sub>O" from claim 1, the disclosure adequately enables and describes the present claims, such that any rejections under 35 U.S.C. 112, first paragraph should be withdrawn.
- 16. Although the striking of "with Na<sub>2</sub>O" opens the scope of the surface-treatment to techniques that are disclosed in the specification and otherwise known in the art, such as claimed in claim 4, claim 1 still nevertheless necessitates that Na<sub>2</sub>O is present on the surface of the particles. Although the claim is no longer drafted in a product-by-process format (i.e., the claim does not state the metal hydroxide is surface treated by a Na<sub>2</sub>O), the claim is still properly rejected notwithstanding its lack of claiming how the Na<sub>2</sub>O is

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put onto the particles surface. In other words, the mere fact that the Na<sub>2</sub>O is present on the surface of the particle renders the claimed subject matter unenabled and not in compliance with the written description requirement.

### Additional Information

- 17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James W. Taylor II whose telephone number is (571) 270-5457. The examiner can normally be reached on 7:30 am to 5:00 pm (off every other Friday).
- 18. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 19. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/James W Taylor II/ Examiner, Art Unit 1796

jwt2

/Vasu Jagannathan/ Supervisory Patent Examiner, Art Unit 1796